SEQUENCE LISTING

<110> Sato, Taka-Aki

<120> GENE ENCODING NADE, P75NTR-ASSOCIATED CELL DEATH EXECUTOR AND USES THEREOF

<130> 0575/59131-A-PCT-US

<140> 10/018,169

<141> 2001-12-07

<160> 45

<170> PatentIn version 3.1

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<212> DNA

<213> Mouse

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<210> 2

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<210>  9
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<223> Mouse Nade DNA

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<212> DNA

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<400> 11
tgtgcctccc tagcctttct ccggat   26

<210> 12

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<212> PRT

<213> Mouse

<400> 12

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Met Ala Asn Val His Gln Glu Asn Glu Glu Met Glu Gln Pro Leu Gln
1               5                   10                  15


Asn Gly Glu Glu Asp Arg Pro Val Gly Gly Gly Glu Gly His Gln Pro
            20                  25                  30


Ala Gly Asn Asn Asn Asn Asn Asn His Asn His Asn His Asn His His
        35                  40                  45


Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile
    50                  55                  60


Pro Asn Arg Gln Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met
65                  70                  75                  80


Glu Met Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu
                85                  90                  95


Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn
            100                 105                 110


His His Asp His His Asp Glu Phe Cys Leu Met Pro
        115                 120
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<210> 13

<211> 111

<212> PRT

<213> Human

<400> 13

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Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln
1               5                   10                  15


Asn Gly Glu Glu Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro
            20                  25                  30
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Ala Gly Asn Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg
        35   40   45

Trp Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly
    50   55   60

Asp Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys
65   70   75   80

Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu
                85   90   95

Leu Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro
                100   105   110

<210>   14

<211>   13

<212>   PRT

<213>   Mouse

<400>   14

Leu Thr Met Lys Glu Val Glu Glu Leu Glu Leu Leu Thr
1   5   10

<210>   15

<211>   13

<212>   PRT

<213>   Mouse

<400>   15

Ala Leu Gln Lys Lys Leu Glu Glu Leu Glu Leu Asp Glu
1   5   10

<210>   16

<211>   10

<212> PRT

<213> Mouse

<400> 16

Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile
1   5   10

<210> 17

<211> 9

<212> PRT

<213> Mouse

<400> 17

Leu Pro Val Leu Glu Asn Leu Thr Leu
1   5

<210> 18

<211> 9

<212> PRT

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<400> 18

Leu Pro Pro Leu Glu Arg Leu Thr Leu
1   5

<210> 19

<211> 12

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<400> 19

Lys Val Ala Glu Lys Leu Glu Ala Leu Ser Val Arg
1   5   10

<210>   20

<211>   13

<212>   PRT

<213>   Mouse

<400>   20

Glu Val Asp Gln Leu Arg Leu Glu Arg Leu Gln Ile Asp
1   5   10

<210>   21

<211>   8

<212>   PRT

<213>   Mouse

<400>   21

Leu Pro Leu Gly Lys Leu Thr Leu
1   5

<210>   22

<211>   14

<212>   PRT

<213>   Human

<400>   22

Ala Leu Ser Ala Gln Leu Tyr Ser Ser Leu Ser Leu Asp Ser
1   5   10

<210>   23

<211>   13

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<213> Mouse

<400> 23

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
1   5   10

<210> 24

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<213> Mouse

<400> 24

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
1   5   10

<210> 25

<211> 27

<212> PRT

<213> Mouse

<400> 25

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu
1   5   10   15

Arg Ile Leu Met Gly Glu Leu Ser Asn His His
            20   25

<210> 26

<211> 27

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<213> Human

<400> 26

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu
1   5   10   15

Arg Ile Leu Met Gly Glu Leu Ser Asn His His
            20   25

<210> 27

<211> 8

<212> PRT

<213> Mouse

<400> 27

Arg Leu Leu Asn Arg Leu Leu Asn
1   5

<210> 28

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<212> DNA

<213> Mouse

<400> 28
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aggactacgc cgcaagggat aggcccagaa tagcaaccag gaaacaaaat ctcatcatgg   180

ccaatgtcca ccaggaaaac gaagagctgg agcagcccct gcagaatgga caggaagacc   240

gccctgtggg aggaggtgag ggccaccagc ctgctgcaaa caacaacaac aacaaccaca   300

accataacca caaccaccac cgaagaggcc aggctcgccg acttgcccct aacttccgat   360

gggccattcc caacaggcag atgaatgacg ggttgggtgg agatggagat gatatggaaa   420

tgttcatgga ggagatgaga gagatccgga gaaagcttag ggagctacag ctgagaaatt   480

gtctacgcat ccttatgggg gagctgtcta accaccacga tcaccatgat gaattctgcc   540

ttatgccttg acttcggtca ttccccctg agatccatac tgtgactccc gctgtagccc   600

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ttttcctcgc attttcctga catgccttta atgacccgtt tgtggtgagc cttgtgttat      660

ttccatgcca tgtgccaggt ggggcttgtg ttgccagtga                            700
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gggagggggct ttaattggag gccccgtaga ggacgcgcgg aacttctaag gtgggaaaaa      180

acgaaattaa aaaatccttt gatatcaggg ctctgaatcc tgctggtcag agcaccaagc      240

attcagtctc tctccttgcc tttgtcttac ttgtgttcaa agaaaaacaa ccagaaaaaa      300

aaaatctcat catggcaaat attcaccagg aaaacgaaga gatggagcag cctatgcaga      360

atggagagga agaccgccct ttgggaggag gtgaaggcca ccagcctgca ggaaatcgac      420

ggggacaggc tcgccgactt gcccctaatt ttcgatgggc catacccaat aggcagatca      480

atgatgggat gggtggagat ggagatgata tggaaatatt catggaggag atgagagaaa      540

tcagaagaaa acttagggag ctgcagttga ggaattgtct gcgtatcctt atgggggagc      600

tctctaatca ccatgaccat catgatgaat tttgccttat gccttgactc ctgccattta      660

tcatgagatt aatactgtga ttcccgctgt tttctttttc cttgcatttt cctaatatgc      720

ctttactgat ccgtttgctg tgaaccctat gttatttcca tgtgtcaagt gggtcttgtg      780

ttgccagctt ctatttgaag attgcctttg cactcagtgt aagtttctgt cagcagtagt      840

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<210> 30
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<212> PRT
<213> Mouse

<400> 30

Met Glu Ser Lys Asp Gln Gly Val Lys Asn Leu Asn Met Glu Asn Asp
1   5   10   15

His Gln Lys Lys Glu Glu Lys Glu Glu Lys Pro Gln Asp Thr Ile Arg
            20   25   30

Arg Glu Pro Ala Val Ala Leu Ile Ser Glu Ala Gly Lys Asn Cys Ala
            35   40   45

Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ala His
    50   55   60

Tyr Arg Trp Asp Leu Met Gln Arg Val Gly Glu Pro Gln Gly Arg Met
65   70   75   80

Arg Glu Glu Asn Val Gln Arg Phe Gly Gly Asp Val Arg Gln Leu Met
                85   90   95

Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser
            100   105   110

Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
            115   120   125

<210>   31

<211>   128

<212>   PRT

<213>   Mouse

<400>   31

Met Glu Ser Lys Glu Glu Arg Ala Leu Asn Asn Leu Ile Val Glu Asn
1   5   10   15

Val Asn Gln Glu Asn Asp Glu Lys Asp Glu Lys Glu Gln Val Ala Asn
            20   25   30

Lys Gly Glu Pro Leu Ala Leu Pro Leu Asn Val Ser Glu Tyr Cys Val
            35   40   45

Pro Arg Gly Asn Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Leu Gln
    50   55   60

Tyr Arg Trp Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met
65   70   75   80

Arg Glu Glu Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met
                85   90   95

Glu Lys Leu Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser
            100   105   110

Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
        115   120   125

<210> 32

<211> 125

<212> PRT

<213> Mouse

<400> 32

Met Glu Ser Lys Glu Lys Arg Ala Val Asn Ser Leu Ser Met Glu Asn
1   5   10   15

Ala Asn Gln Glu Asn Glu Glu Lys Glu Gln Val Ala Asn Lys Gly Glu
            20   25   30

Pro Leu Ala Leu Pro Leu Asp Ala Gly Glu Tyr Cys Val Pro Arg Gly
        35   40   45

Asn Arg Arg Arg Phe Pro Val Arg Gln Pro Ile Leu Gln Tyr Arg Trp
    50   55   60

Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met Arg Glu Glu
65   70   75   80

Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met Glu Lys Leu
                85   90   95

Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser Thr Asp Pro
            100   105   110

Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
            115   120   125

<210>   33

<211>   128

<212>   PRT

<213>   Mouse

<400>   33

Met Glu Ser Lys Asp Gln Gly Ala Lys Asn Leu Asn Met Glu Asn Asp
1   5   10   15

His Gln Lys Lys Glu Glu Lys Glu Glu Lys Pro Gln Asp Thr Ile Lys
            20   25   30

Arg Glu Pro Val Val Ala Pro Thr Phe Glu Ala Gly Lys Asn Cys Ala
            35   40   45

Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ser His
    50   55   60

Tyr Arg Trp Asp Leu Met His Arg Val Gly Glu Pro Gln Gly Arg Met
65   70   75   80

Arg Glu Glu Asn Val Gln Arg Phe Gly Glu Asp Met Arg Gln Leu Met
                85   90   95

Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser
            100   105   110

Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
            115   120   125

<210>   34

<211>   118

<212>   PRT

<213>   Mouse

<400>   34

Met Ala Ser Lys Val Lys Gln Val Ile Leu Asp Leu Thr Val Glu Lys
1   5   10   15

Asp Lys Lys Asn Lys Lys Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu
            20   25   30

Glu Ser His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn
            35   40   45

Val Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile
    50   55   60

Pro Asn Arg His Val Asp His Ser Glu Gly Gly Glu Glu Val Gly Arg
65   70   75   80

Phe Val Gly Gln Val Met Glu Ala Lys Arg Lys Ser Lys Glu Gln Gln
                85   90   95

Met Arg Pro Tyr Thr Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr
                100   105   110

Asp Phe Cys Leu Ile Pro
            115

<210>   35

<211>   118

<212>   PRT

<213>   Mouse

<400>   35

Met Ala Ser Lys Phe Lys Gln Val Ile Leu Asp Leu Thr Val Glu Lys
1   5   10   15

Asp Lys Lys Asp Lys Arg Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu
            20   25   30

```
Glu Pro His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn
        35                  40                  45


Val Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile
        50                  55                  60


Pro Asn Arg His Val Asp Arg Asn Glu Gly Gly Glu Asp Val Gly Arg
65                      70              75                      80


Phe Val Val Gln Gly Thr Glu Val Lys Arg Lys Thr Thr Glu Gln Gln
                85                  90                  95


Val Arg Pro Tyr Arg Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr
                100                 105                 110


Asp Phe Cys Leu Ile Pro
            115


<210>   36

<211>   111

<212>   PRT

<213>   Mouse



<400>   36

Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln
1                   5                   10                  15


Asn Gly Glu Glu Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro
                20                  25                  30


Ala Gly Asn Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg
        35                  40                  45


Trp Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly
        50                  55                  60


Asp Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys
65                      70                  75                      80
```

Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu
              85   90   95

Leu Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro
              100   105   110

<210>   37

<211>   120

<212>   PRT

<213>   Mouse

<400>   37

Met Glu Gln Pro Leu Gln Asn Gly Gln Glu Asp Arg Pro Val Gly Gly
1   5   10   15

Gly Glu Gly His Gln Pro Ala Ala Ala Asn Asn Asn His Asn His Asn
              20   25   30

His Asn His Asn His Ser His Asn His Asn His His Arg Arg Gly Gln
          35   40   45

Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Pro Asn Arg Gln
      50   55   60

Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met Glu Met Phe Met
65   70   75   80

Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
              85   90   95

Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn His His Asp His
              100   105   110

His Asp Glu Phe Cys Leu Met Pro
          115   120

<210>   38

<211>   120

<212> PRT

<213> Mouse

<400> 38

Met Glu Gln Pro Leu Gln Asn Gly Gln Glu Asp Arg Pro Val Gly Gly
1   5   10   15

Gly Glu Gly His Gln Pro Ala Ala Ala Asn Asn Asn His Asn His Asn
            20   25   30

His Asn His Asn His Ser His Asn His Asn His His Arg Arg Gly Gln
        35   40   45

Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Pro Asn Arg Gln
    50   55   60

Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met Glu Met Phe Met
65   70   75   80

Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
            85   90   95

Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn His His Asp His
            100   105   110

His Asp Glu Phe Cys Leu Met Pro
        115   120

<210> 39

<211> 111

<212> PRT

<213> Mouse

<400> 39

Met Glu Asn Val Pro Lys Glu Asn Lys Val Val Glu Lys Ala Pro Val
1   5   10   15

Gln Asn Glu Ala Pro Ala Leu Gly Gly Gly Glu Tyr Gln Glu Pro Gly

Gly Asn Val Lys Gly Val Trp Ala Pro Pro Ala Pro Gly Phe Gly Glu
        35   40   45

Asp Val Pro Asn Arg Leu Val Asp Asn Ile Asp Met Ile Asp Gly Asp
        50   55   60

Gly Asp Asp Met Glu Arg Phe Met Glu Glu Met Arg Glu Leu Arg Arg
65   70   75   80

Lys Ile Arg Glu Leu Gln Leu Arg Tyr Ser Leu Arg Ile Leu Ile Gly
                85   90   95

Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
                100   105   110

<210>   40

<211>   13

<212>   PRT

<213>   Mouse

<400>   40

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
1   5   10

<210>   41

<211>   13

<212>   PRT

<213>   Human

<400>   41

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
1   5   10

<210>   42

<211> 10

<212> PRT

<213> Mouse

<400> 42

Leu Pro Pro Leu Glu Arg Leu Thr Leu Asp
1   5   10

<210> 43

<211> 12

<212> PRT

<213> Mouse

<400> 43

Ala Leu Gln Lys Lys Leu Glu Glu Leu Glu Leu Asp
1   5   10

<210> 44

<211> 12

<212> PRT

<213> Mouse

<400> 44

Leu Thr Met Lys Glu Val Glu Glu Leu Glu Leu Leu
1   5   10

<210> 45

<211> 10

<212> PRT

<213> Mouse

<400> 45

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Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile
1               5                   10
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